Material Safety Data Sheet.

Calcium Chloride Flakes 77-80%

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MATERIAL SAFETY DATA SHEET

According to EC directive 93/112/EC.

1. PRODUCT AND COMPANY IDENTIFICATION.

Trade Name: Calcium Chloride Flakes 77-80%

Manufacturer/Supplier: Central Chemical Supplies Limited

44 Hall Road Donaghcloney, Craigavon

Co. Armagh, BT66 7LJ. Northern Ireland.

Telephone Number: +44 (0) 28 38 881 936. Fax Number: +44 (0) 28 38 882 335. Emergency Telephone Number: +44 (0) 28 38 881 936.

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Hazardous components

CAS no or Chemical name of the Concentration Hazard symbol, R phrases and

Other code substance other information

100043-52-4 Calcium chloride 77 – 80% Xi, R36

EU no 2331408

Further information: White flakes.

3. HAZARD IDENTIFICATION.

Irritating to eyes.

4. FIRST AID MEASURES.

Additional advice

First aid -Inhalation: Move to fresh air.

First aid -Skin contact: Wash off with plenty of water.

First aid -Eye contact: Rinse immediately with plenty of water, also under the

eye lids, for at least 15 minutes. Call a physician

immediately.

First aid -Ingestion: Drink plenty of water. Induce vomiting immediately

and call a physician. Never give anything by mouth to

an unconscious person.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Standard procedure for chemical fires.

Extinguishing media which must be

used for safety reasons:

Special exposure hazards in a fire: Heating above the decomposition temperature will

release toxic fumes (C1-).

Special protective equipment for firefighters: Wear self-contained breathing apparatus and splash

protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up: Shovel or sweep up. Shovel into a suitable container

for disposal. Avoid dust formation. Dispose of in compliance with local and national regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Do not breathe dust.

Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Keep container tightly closed (hygroscopic).

Incompatible products: B₂O₃ + CaO; BrF₃

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values: Not available. For inorganic dust: HTP (8h) = 10

mg/m³

Exposure controls

Occupational exposure controls: Avoid contact with skin and eyes. Avoid dust

formation. Wash hands before breaks and immediately

after handling the product.

Respiratory protection: Half mask with a particle filter P2.

Hand protection: PVC or other plastic material gloves. Do not use

leather gloves.

Eye protection: Goggles/face-shield

Skin and body protection: Lightweight protective clothing/dust impervious

protective suit. Rubber or plastic apron. Do not use

leather clothing or shoes. Remove and wash

contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White flakes.

Odour: Odourless

Boiling point/range: > 1600°C

Flash point: N/A

Explosive properties:

Vapour pressure: Negligible

Relative density: ca. 2.04Kg/dm³ (77% CaCl₂)

Bulk density: n. 820Kg/m³ (77% CaCl₂)

Solubility in water: 745 g/l (20°C, 100% CaCl₂)

Solubility in solvents: No data available

Partition coefficient (n-octanol/water): N/A

Further Information Melting point = 772 °C (100% CaCl₂) Decomposition

Temperature > 1600°C (100% CaCl₂)

10. STABILITY AND REACTIVITY

Conditions to avoid Keep containers dry and tightly closed to avoid

moisture absorption and contamination (hygroscopic)

Materials to avoid: B₂O₃₊CaO; BrF₃

Hazardous decomposition products: N/A.

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD50/oral/rat = 1000-4000 mg/kg

Irritation and corrosion Skin irritation, eye irritation

Sensitisation No data available

Subacute, subchronic and prolonged toxicity: No data available

Human experience Skin irritation, eye irritation

12. ECOLOGICAL INFORMATION

Ectoxicity

Aquatic Toxicity LC50/96h/Gambusia affinis = 13 4000mg/l

LC50/96h/Lepomis macrochirus = 10 650mg/l

LC50/96h/Daphnia = 649 mg/l

LC50/96h/Nitocra spinipes = 1600 mg/l LC50/120h/Nitzschia linearis = 3130 mg/l

Mobility No data available

Persistence/degradability

Biological degradability Stable

Bioaccumulative potential No data available

13. DISPOSAL

In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

The product is classified and labelled in accordance with EC directives

Hazard symbol(s): Xi - Irritant

Name on label Calcium chloride

Risk phrase(s): R36 – Irritating to eyes

Safety phrase(s): S22 – Do not breathe dust

S24 – Avoid contact with the skin

16. OTHER INFORMATION

Disclaimer

The information contained in this document is intended to describe the product only in terms of health, safety and environmental requirements for the purposes of its safe handling, use and disposal and is to the best of Central Chemical Supplies Limited knowledge and belief correct. Central Chemical Supplies Limited Technical Services will be pleased to give further advice and assistance, but customers must satisfy themselves (by appropriate testing if necessary) that the product is suitable for their purposes and conditions of use and that their facilities and arrangements are suitable for handling or using the product. Accordingly Central Chemical Supplies Limited disclaims any liability for loss, injury or damage which may result from the use of the product, this information or from such advice and assistance save as may be expressly agreed under its terms of sale. This information does not comprise a technical or performance specification for the product and customers are referred to any relevant product technical information or specification issued by Central Chemical Supplies Limited.

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